

CJC  
CASE GY20a

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Stephen B. Davis  
Type or print name

Stephen B. Davis  
Signature

April 11, 2005  
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF  
ZAHLER ET AL.

PATENT NO: 5,206,244

ISSUED: APRIL 27<sup>TH</sup>, 1993

FOR: HYDROXYMETHYL (METHYLENECYCLOPENTYL) PURINES AND  
PYRIMIDINES

Certificate  
APR 19 2005  
of Correction

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attention: Decision and Certification Branch of Patent Issue Division

REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT

Sir:

Attached, in duplicate, is Form PTO-1050, with at least one copy being suitable for printing.

Applicants submit these corrections present no new matter and do not require reexamination, as it is clear from the patent document itself that each of the errors is of a typographical, clerical and/or minor nature, and the correct text would be readily apparent to one skilled in the field.

Certain errors occurred through the fault of the USPTO, for which correction is sought under 37 CFR 1.322, and certain errors occurred through fault of the applicant in good faith for which correction is sought under 37 CFR 1.323.

04/14/2005 WABDEL R3 00000067 193880 5206244  
01 FC:1811 100.00 DA

APR 19 2005

On account of the corrections Applicants request pursuant to 37 CFR 1.323, the Commissioner is authorized to charge the \$100 fee under 37 CFR 1.20(a) to Deposit Account No. 19-3880. Additionally, the Commissioner is authorized to charge any additional fee that may be required for this request to the aforementioned Deposit Account. The USPTO is requested to kindly contact the undersigned if deemed appropriate to expedite this request.

Respectfully submitted,

Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338



Stephen B. Davis  
Attorney for Applicants  
Reg. No. 26,693

Date: *April 11, 2005*


Page 1 of 26

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

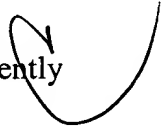
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

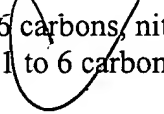
Column 1

line 30, Insert - R<sub>1</sub> is 

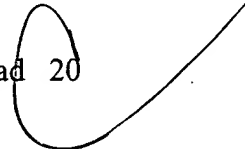
Column 2

line 45, stituted alkyl, or aryl; and R<sub>6</sub> and R<sub>7</sub> re independently   
should read: stituted alkyl, or aryl; and R<sub>6</sub> and R<sub>7</sub> are independently

Column 3

line 55, methyl, amino, alkylamino of 1 to 6 carbons, nitro,   
should read: methyl, amino, alkylamino of 1 to 6 carbons, dialkylamino, wherein each alkyl is of  
1 to 6 carbons, nitro,

Column 12

line 30, 22 should read 20 

MAILING ADDRESS OF SENDER:

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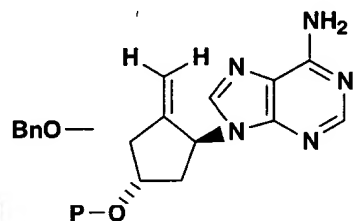
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

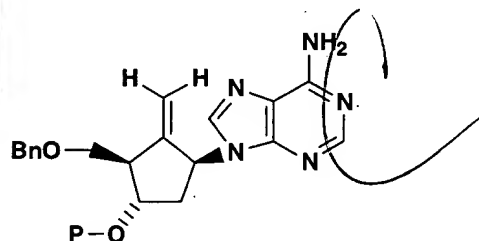
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14  
line 40



should read:



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Stephen B. Davis  
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Princeton, NJ 08543-4000  
(609) 252-4338

PATENT NO. 5,206,244

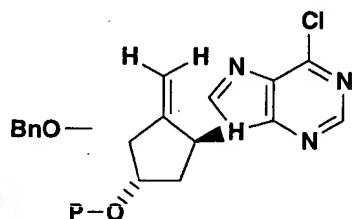
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

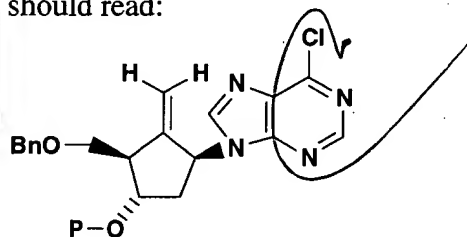
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15

line 35



should read:



## MAILING ADDRESS OF SENDER:

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P.O. Box 4000  
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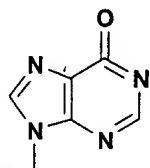
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

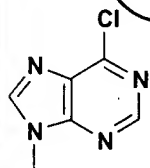
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 16  
line 55



should read:



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(609) 252-4338

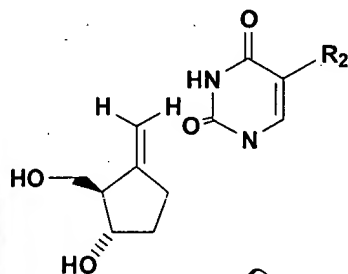
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

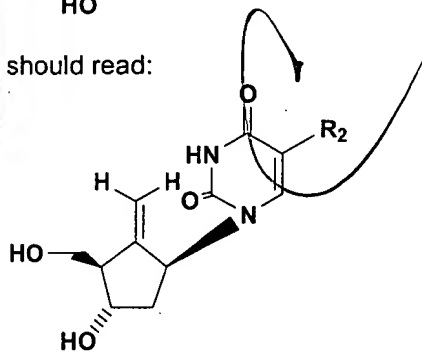
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17  
line 25



should read:



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

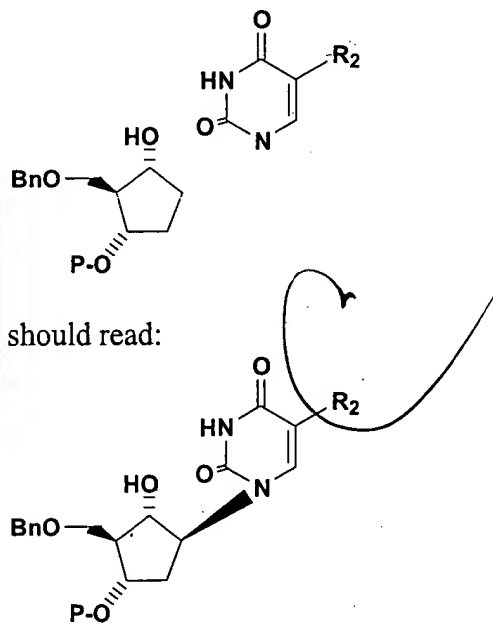
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17  
line 55



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
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Princeton, NJ 08543-4000  
(609) 252-4338

PATENT NO. 5,206,244

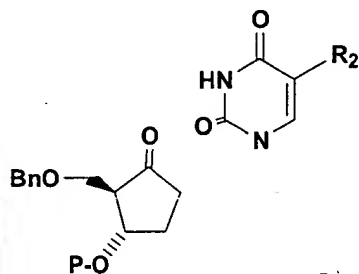


UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

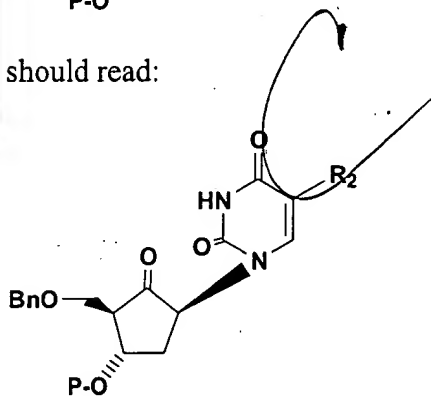
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18  
line 5



should read:



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
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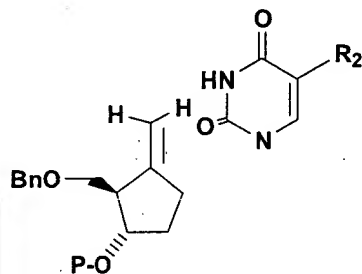
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

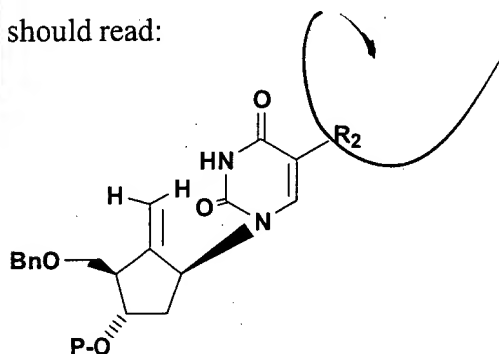
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18  
line 25



should read:



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
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(609) 252-4338

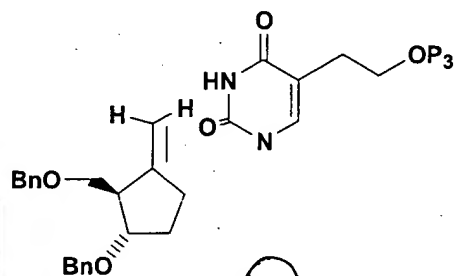
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

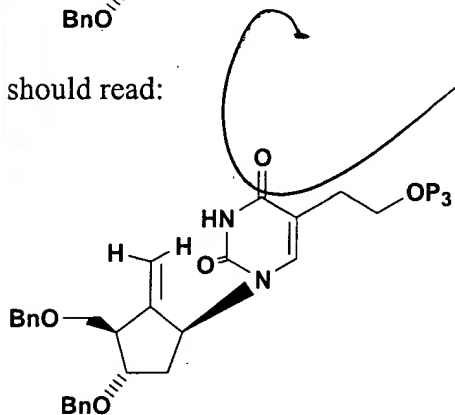
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19  
structure 34



should read:



MAILING ADDRESS OF SENDER:  
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PATENT NO. 5,206,244

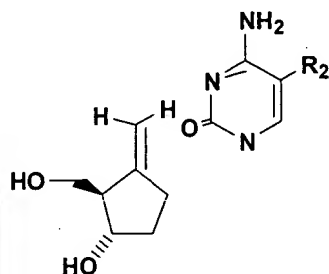
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

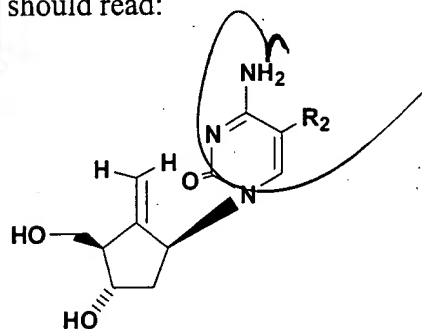
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19

structure 36



should read:



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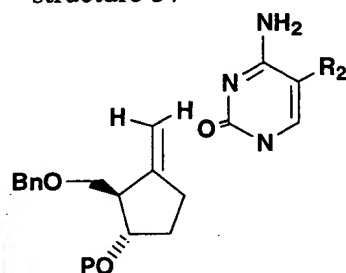
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

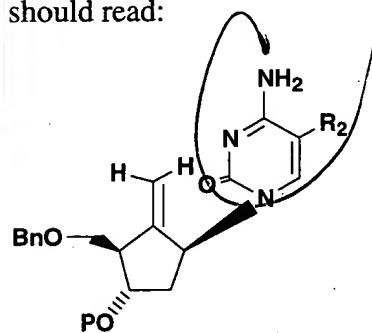
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20  
structure 37



should read:



MAILING ADDRESS OF SENDER:

Stephen B. Davis  
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Princeton, NJ 08543-4000  
(609) 252-4338

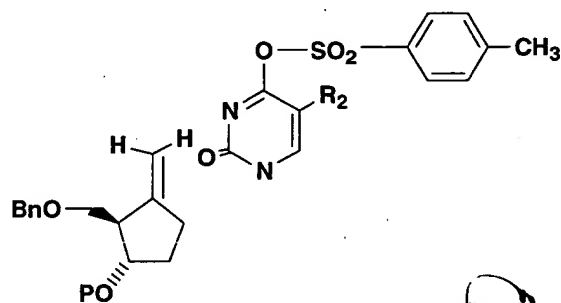
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

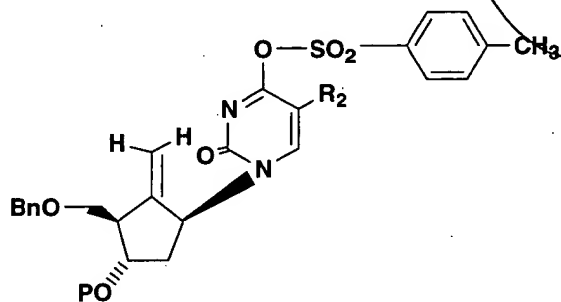
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20  
structure 38



should read:



MAILING ADDRESS OF SENDER:

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
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Princeton, NJ 08543-4000  
(609) 252-4338

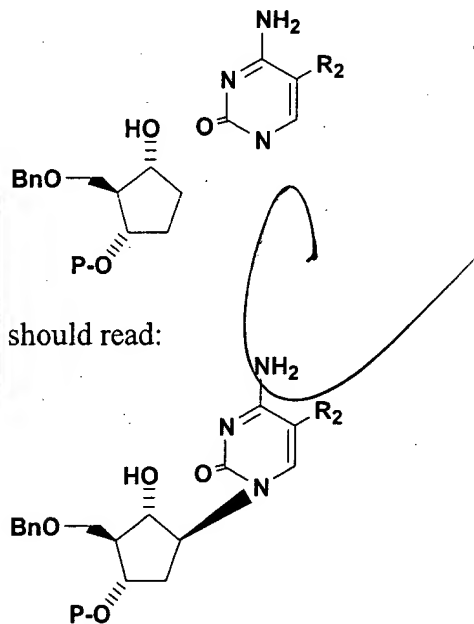
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21  
structure 40



should read:

MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

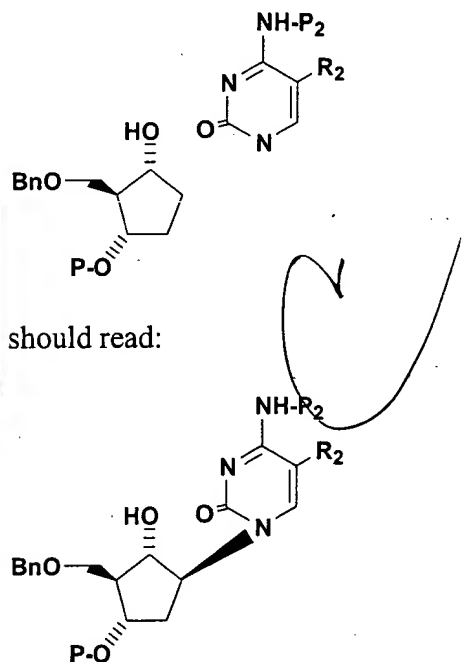
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21  
structure 41



MAILING ADDRESS OF SENDER:  
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Patent Department  
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PATENT NO. 5,206,244

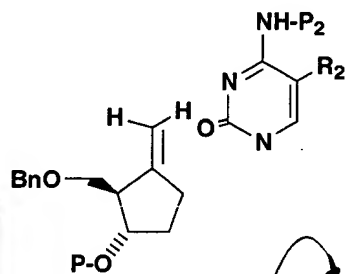


UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

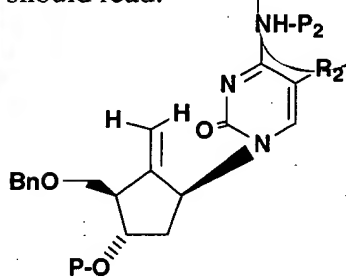
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22  
structure 42



should read:



MAILING ADDRESS OF SENDER:

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

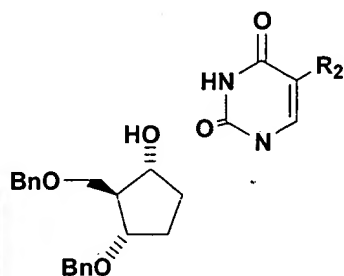
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

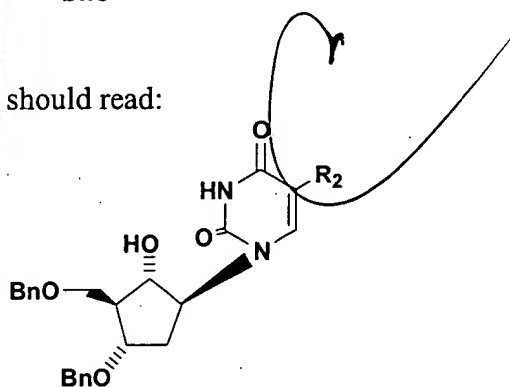
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22  
structure 43



should read:



MAILING ADDRESS OF SENDER:

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
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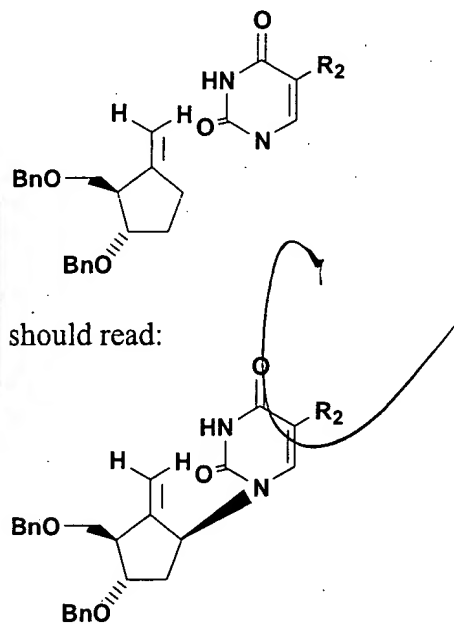
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23  
structure 44



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
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Patent Department  
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PATENT NO. 5,206,244

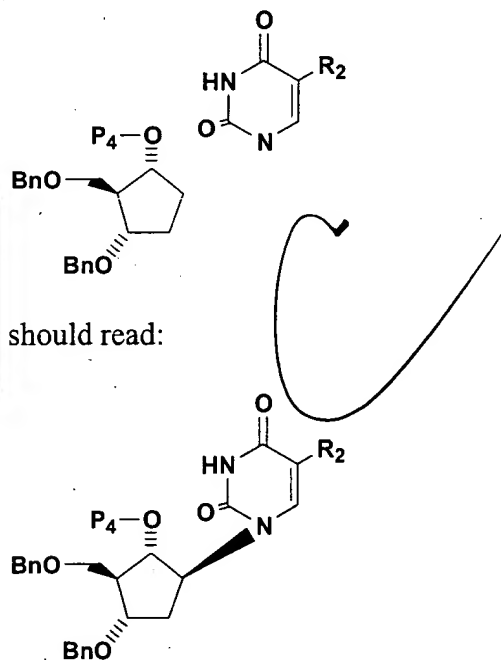
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23

structure 45



MAILING ADDRESS OF SENDER:  
Stephen B. Davis  
Bristol-Myers Squibb Company  
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P.O. Box 4000  
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(609) 252-4338

PATENT NO. 5,206,244

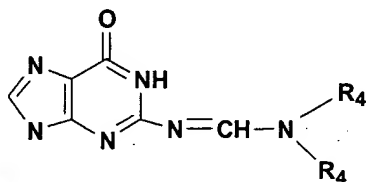
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

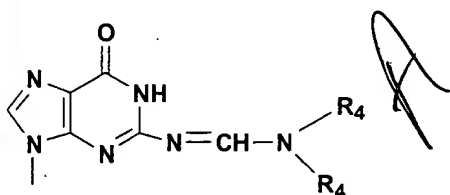
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 28

line 65, last structure



should read:



MAILING ADDRESS OF SENDER:

PATENT NO. 5,206,244

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

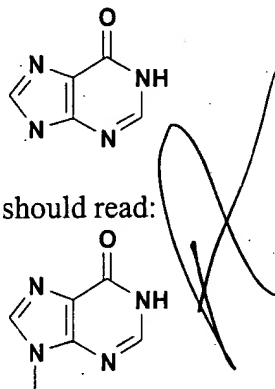
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 29

structure at line 35

Column 30

line 33, should read: -- oil (0.391 g atm) in dry tetrahydrofuran (156 ml) at --

Column 31

line 38, should read -- 2-[(phenylmethoxy)-methyl]-6-oxabicyclo[3.1.0]hexan--

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PATENT NO. 5,206,244

Page 21 of 26

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33

line 21 phenyl)diphenylmethylamino]-6-(phenylmethoxy)-9H-  
should read: -- phenyl)diphenylmethyl]amino]-6-(phenylmethoxy)-9H- --

Column 33

line 65 dihydro-9-2-methylene-4-(phenyl-methoxy)-3-[(phenyl-  
should read -- dihydro-9-[2-methylene-4-(phenyl-methoxy)-3-[(phenyl- --

Column 37

line 10, thoxy)-3-[(phenylmethoxy)methyl-cyclopentyl]-  
should read: -- thoxy)-3-[(phenylmethoxy)methyl]-cyclopentyl]- --

Column 37

line 49 [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-2-methylene-4-(phenylme-  
should read: -- [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-[2-methylene-4-(phenylme- --

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PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 39

line 22 D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-2-methylene-4-  
should read: -- D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-[2-methylene-4- --

Column 41

line 3 methyl]cyclopentyl-2,4-dioxo-5-pyrimidinyl]-2-  
should read: -- methyl]cyclopentyl]-2,4-dioxo-5-pyrimidinyl]-2- --

Column 43

line 31 (phenylmethoxy)-2-(phenylmethoxy)methyl]cyclopent-  
should read: -- (phenylmethoxy)-[2-(phenylmethoxy)methyl]cyclopent- --

Column 43

line 38 [(phenylmethoxy)methyl]cyclopentanol (610 mg, 1.25  
should read: -- [(phenylmethoxy)methyl]cyclopentanol (610 mg, 1.25 --

Column 44

line 55 (1S-trans)-2-(Phenylmethoxy)methyl]-3-cyclopentene-1-  
should read: -- (1S-trans)-2-[(Phenylmethoxy)methyl]-3-cyclopentene-1- --

MAILING ADDRESS OF SENDER:

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

PATENT NO. 5,206,244



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 45

line 40 thoxy)methyl]-6-oxabicyclo3.1.0]-hexane  
should read -- thoxy)methyl]-6-oxabicyclo[3.1.0]-hexane --

Column 46

line 37 1S-1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-1,2,3,4-Tetrahydro-  
should read: -- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-[1,2,3,4-Tetrahydro- --

Column 46

line 38 1-2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)-  
should read: -- 1-[2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)- --

Column 46

line 49 I. [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-phenyl  
should read: -- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-(phenyl --

Column 46

line 50 methoxy)-3-(phenylmethoxy)methyl]cyclopentyl]-5-(2-  
should read: -- methoxy)-3-[(phenylmethoxy)methyl]cyclopentyl]-5-(2- --

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(609) 252-4338

PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 47

line 31 1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]]-5-(2-Iodoethenyl)-1-[2-methylene-4-  
should read: -- [1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]]-5-(2-Iodoethenyl)-1-[2-methylene-4- --

Column 47

line 39 concentration in vacuo from dry toluene) in dry dichlo-  
should read: -- concentration in vacuo from dry toluene) in dry dichlo- --

Column 49

line 47 lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methylcy-  
should read: -- lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methyl]cy- --

Column 49

line 61 was taken up in methnaol (26 ml.) and water (20 ml.),  
should read: -- was taken up in methanol (26 ml.) and water (20 ml.), --

Column 50

line 40 HIV (strain-5 HTLV-III B). After adsorption for 1 - 2  
should read: -- (strain HTLV-III B). After adsorption for 1 - 2 --

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PATENT NO. 5,206,244

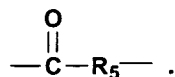
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

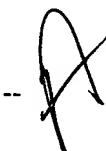
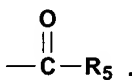
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54

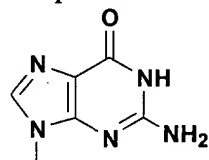
Claim 1, line 65



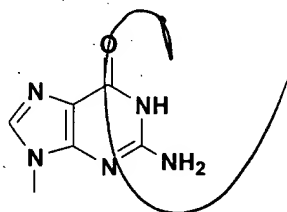
Should read: --

Column 55

Claim 6 A compound according to claim 1 wherein



should read: -- A compound according to claim 1 wherein  
R<sub>1</sub> is



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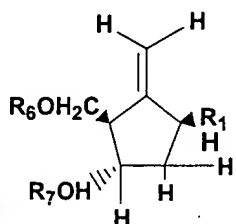
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

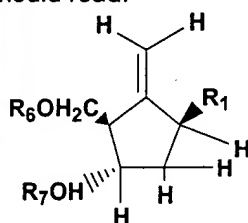
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5  
Claim 10 structure



should read:



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PATENT NO. 5,206,244

Page 1 of 26

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**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1

line 30, Insert –  $R_1$  is --

Column 2

line 45, stituted alkyl, or aryl; and  $R_6$  and  $R_7$  re independently  
should read: stituted alkyl, or aryl; and  $R_6$  and  $R_7$  are independently

Column 3

line 55, methyl, amino, alkylamino of 1 to 6 carbons, nitro,  
should read: methyl, amino, alkylamino of 1 to 6 carbons, dialkylamino, wherein each alkyl is of  
1 to 6 carbons, nitro,

Column 12

line 30, 22 should read 20

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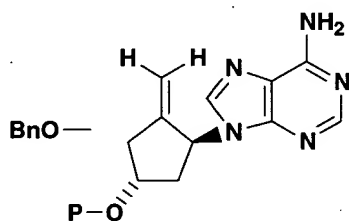
PATENT NO. 5,206,244

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**CERTIFICATE OF CORRECTION**

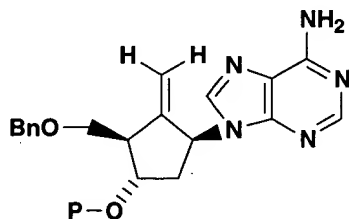
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14  
line 40



should read:



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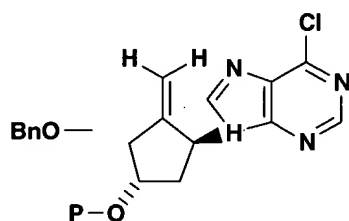
PATENT NO. 5,206,244

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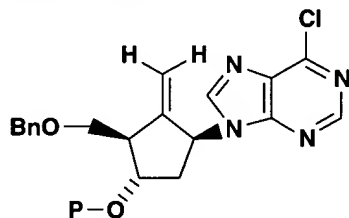
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15  
line 35



should read:



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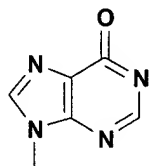
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**CERTIFICATE OF CORRECTION**

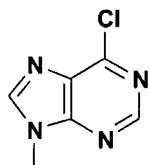
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 16  
line 55



should read:



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PATENT NO. 5,206,244

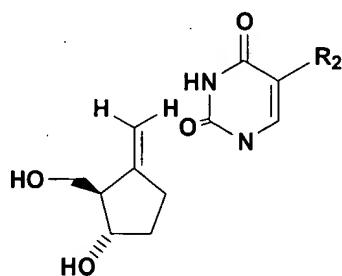


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**CERTIFICATE OF CORRECTION**

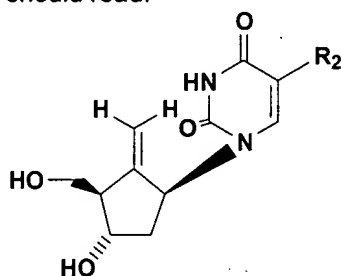
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17  
line 25



should read:



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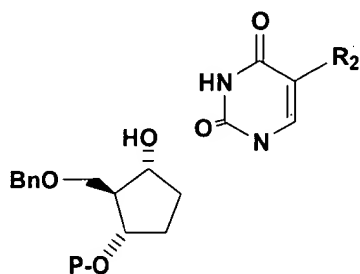
PATENT NO. 5,206,244

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**CERTIFICATE OF CORRECTION**

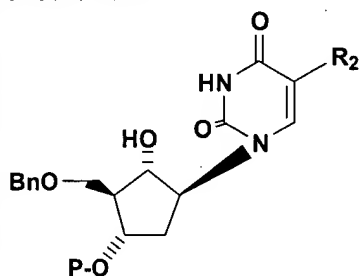
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17  
line 55



should read:



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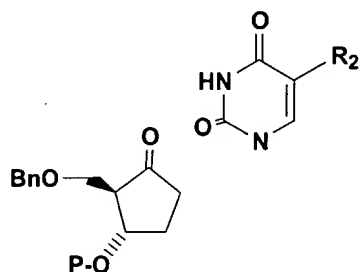
PATENT NO. 5,206,244

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**CERTIFICATE OF CORRECTION**

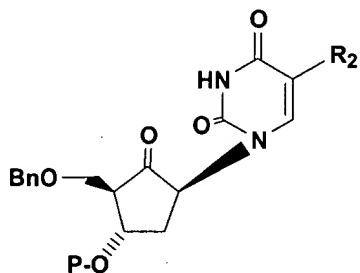
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18  
line 5



should read:



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(609) 252-4338

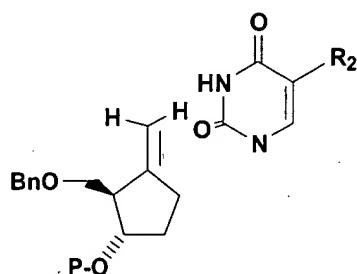
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

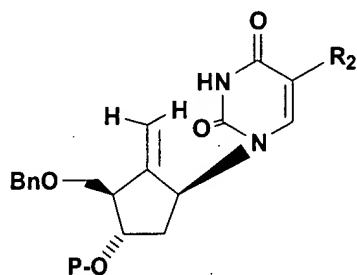
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18  
line 25



should read:



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(609) 252-4338

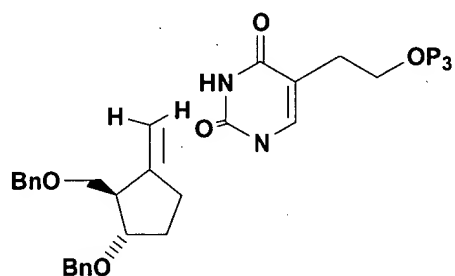
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

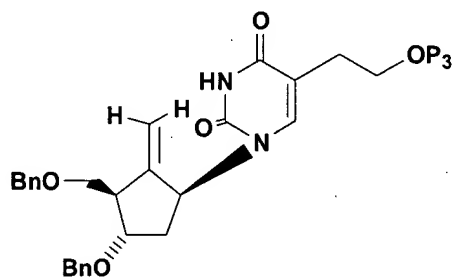
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19  
structure 34



should read:



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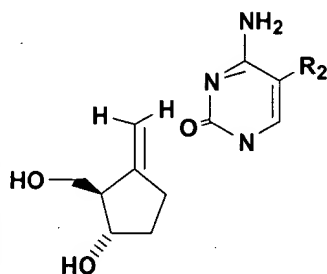
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

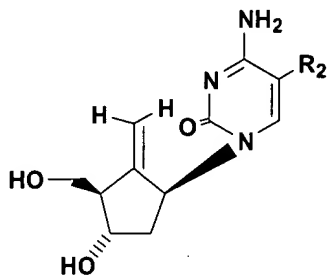
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19  
structure 36



should read:



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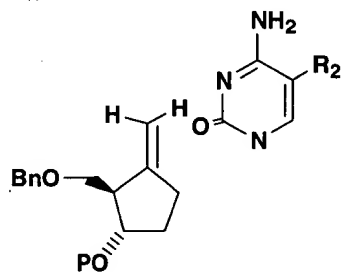
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

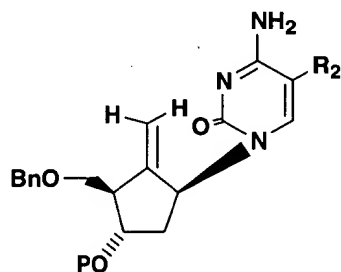
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20  
structure 37



should read:



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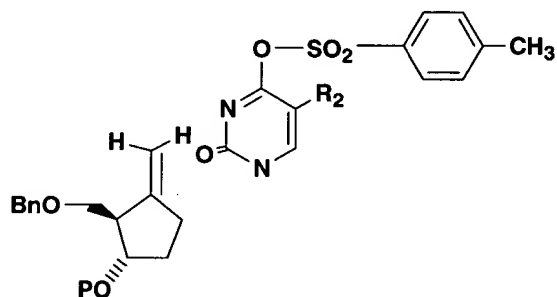
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

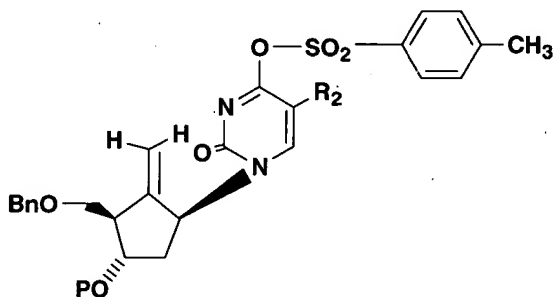
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20  
structure 38



should read:



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PATENT NO. 5,206,244

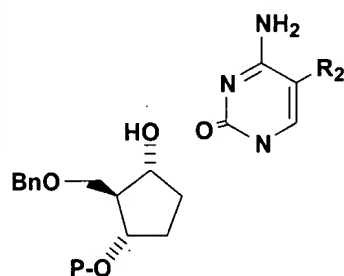


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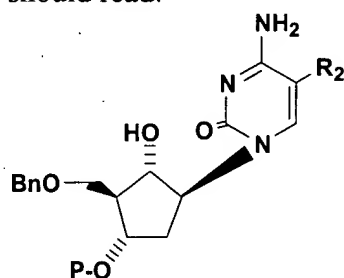
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21  
structure 40



should read:



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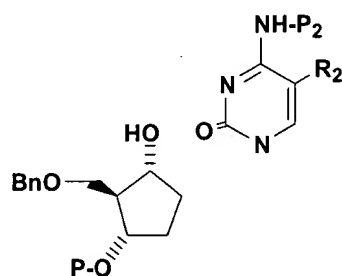
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

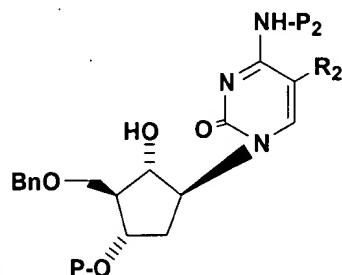
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 21  
structure 41



should read:



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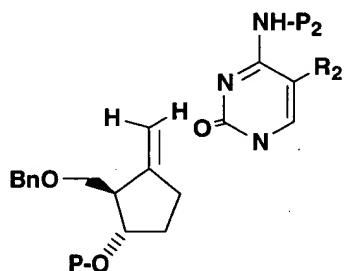
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

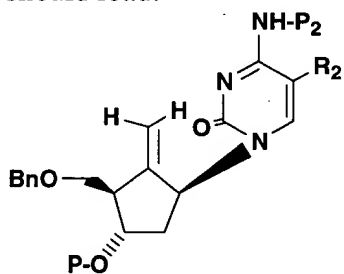
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22  
structure 42



should read:



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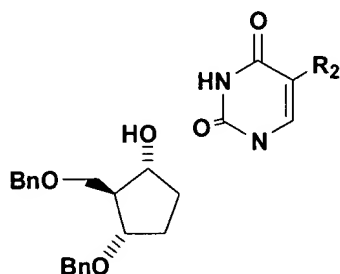
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

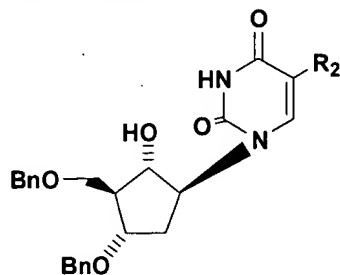
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 22  
structure 43



should read:



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(609) 252-4338

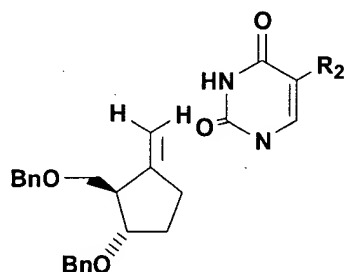
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

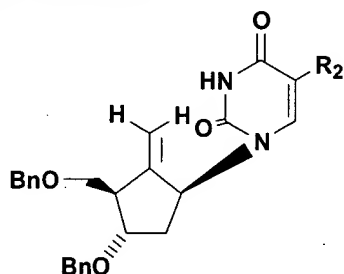
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23  
structure 44



should read:



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(609) 252-4338

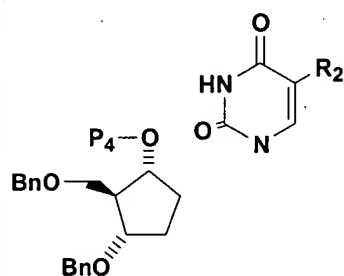
PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

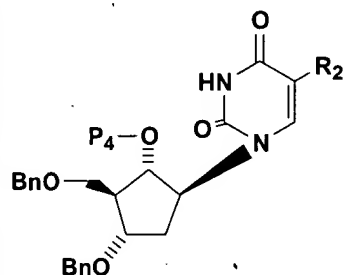
PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 23  
structure 45



should read:



MAILING ADDRESS OF SENDER:

Stephen B. Davis  
Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
(609) 252-4338

PATENT NO. 5,206,244

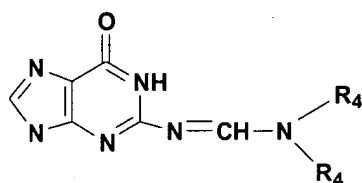
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

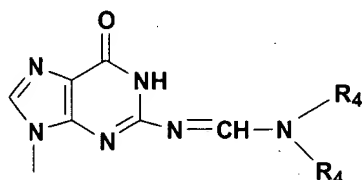
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 28

line 65, last structure



should read:



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PATENT NO. 5,206,244

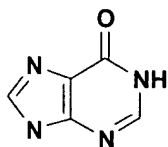
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

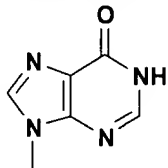
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 29

structure at line 35



should read:

Column 30

line 33, should read: -- oil (0.391 g atm) in dry tetrahydrofuran (156 ml) at --

Column 31

line 38, should read -- 2-[(phenylmethoxy)-methyl]-6-oxabicyclo[3.1.0]hexan- --

MAILING ADDRESS OF SENDER:

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Page 21 of 26

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 33

line 21 phenyl)diphenylmethylamino]-6-(phenylmethoxy)-9H-  
should read: -- phenyl)diphenylmethyl]amino]-6-(phenylmethoxy)-9H- --

Column 33

line 65 dihydro-9-2-methylene-4-(phenyl-methoxy)-3-[(phenyl-  
should read -- dihydro-9-[2-methylene-4-(phenyl-methoxy)-3-[(phenyl- --

Column 37

line 10, thoxy)-3-[(phenylmethoxy)methyl-cyclopentyl]-  
should read: -- thoxy)-3-[(phenylmethoxy)methyl]-cyclopentyl]- --

Column 37

line 49 [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-2-methylene-4-(phenylme-  
should read: -- [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-[2-methylene-4-(phenylme- --

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PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 39

line 22 D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-2-methylene-4-  
should read: -- D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-[2-methylene-4- --

Column 41

line 3 methyl]cyclopentyl-2,4-dioxo-5-pyrimidinyl]-2-  
should read: -- methyl]cyclopentyl]-2,4-dioxo-5-pyrimidinyl]-2- --

Column 43

line 31 (phenylmethoxy)-2-(phenylmethoxy)methyl]cyclopen-  
should read: -- (phenylmethoxy)-[2-(phenylmethoxy)methyl]cyclopen- --

Column 43

line 38 [(phenylmethoxy)methylcyclopentanol (610 mg, 1.25  
should read: -- [(phenylmethoxy)methyl]cyclopentanol (610 mg, 1.25 --

Column 44

line 55 (1S-trans)-2-(Phenylmethoxy)methyl]-3-cyclopentene-1-  
should read: -- (1S-trans)-2-[(Phenylmethoxy)methyl]-3-cyclopentene-1- --

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PATENT NO. 5,206,244

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 45

line 40 thoxy)methyl]-6-oxabicyclo3.1.0]-hexane  
should read -- thoxy)methyl]-6-oxabicyclo[3.1.0]-hexane --

Column 46

line 37 1S-1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-1,2,3,4-Tetrahydro-  
should read: -- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-[1,2,3,4-Tetrahydro- --

Column 46

line 38 1-2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)-  
should read: -- 1-[2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)- --

Column 46

line 49 I. [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-phenyl  
should read: -- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-(phenyl --

Column 46

line 50 methoxy)-3-(phenylmethoxy)methyl]cyclopentyl]-5-(2-  
should read: -- methoxy)-3-[(phenylmethoxy)methyl]cyclopentyl]-5-(2- --

MAILING ADDRESS OF SENDER:

PATENT NO. 5,206,244

Stephen B. Davis  
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Page 24 of 26

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 47

line 31 1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]]-5-(2-Iodoethenyl)-1-[2-methylene-4-  
should read: -- [1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]]-5-(2-Iodoethenyl)-1-[2-methylene-4- --

Column 47

line 39 concentration in vacuo from dry doluene) in dry dichlo-  
should read: -- concentration in vacuo from dry toluene) in dry dichlo- --

Column 49

line 47 lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methylcy-  
should read: -- lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methyl]cy- --

Column 49

line 61 was taken up in methnaol (26 ml.) and water (20 ml.),  
should read: -- was taken up in methanol (26 ml.) and water (20 ml.), --

Column 50

line 40 HIV (strain-5 HTLV-III B). After adsorption for 1 - 2  
should read: -- (strain HTLV-III B). After adsorption for 1 - 2 --

MAILING ADDRESS OF SENDER:

PATENT NO. 5,206,244

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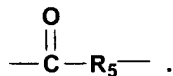
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 54

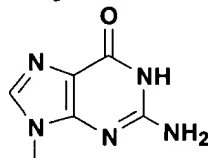
Claim 1, line 65



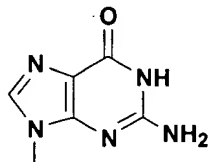
Should read: --  $\text{---}\overset{\text{O}}{\parallel}\text{C}\text{---R}_5$  . --

Column 55

Claim 6 A compound according to claim 1 wherein



should read: -- A compound according to claim 1 wherein  
R<sub>1</sub> is



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PATENT NO. 5,206,244

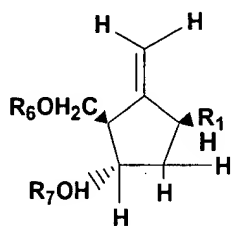
UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO : 5,206,244  
DATED: : April 27, 1993  
INVENTOR(S) : ZAHLER ET AL.

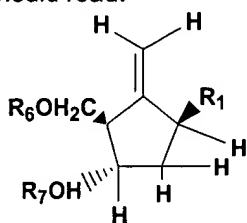
It is certified that there is an error in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 55

Claim 10 structure



should read:



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PATENT NO. 5,206,244

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**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 1 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1,

Line 30, insert --  $R_1$  is --.

Column 2,

Line 45, "stituted alkyl, or aryl; and  $R_6$  and  $R_7$  re independently" should read -- stituted alkyl, or aryl; and  $R_6$  and  $R_7$  are independently --.

Column 3,

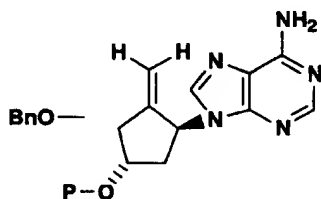
Line 55, "methyl, amino, alkylamino of 1 to 6 carbons, nitro," should read -- methyl, amino, alkylamino of 1 to 6 carbons, dialkylamino, wherein each alkyl is of 1 to 6 carbons, nitro, --.

Column 12,

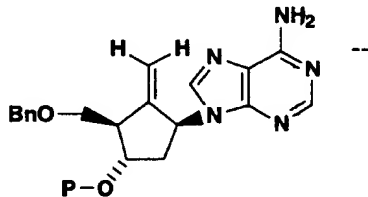
Line 30, "22" should read -- 20 --.

Column 14,

Line 40, "



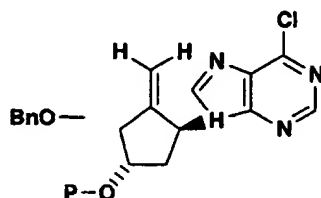
" should read --



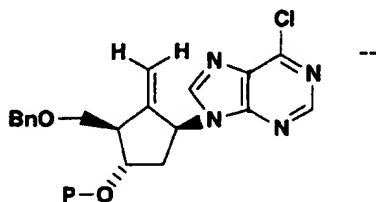
--.

Column 15,

Line 35, "



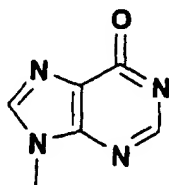
" should read --



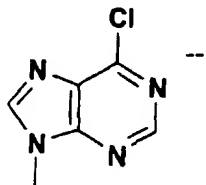
--.

Column 16,

Line 55, "



" should read --



--.

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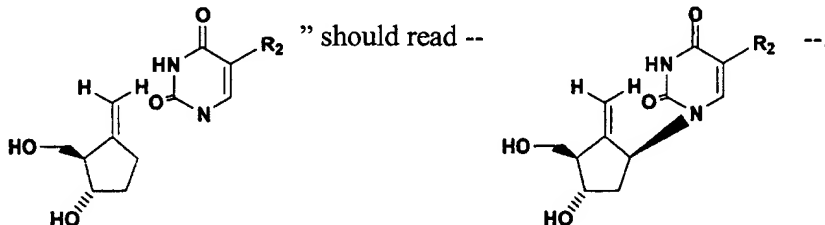
PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 2 of 8

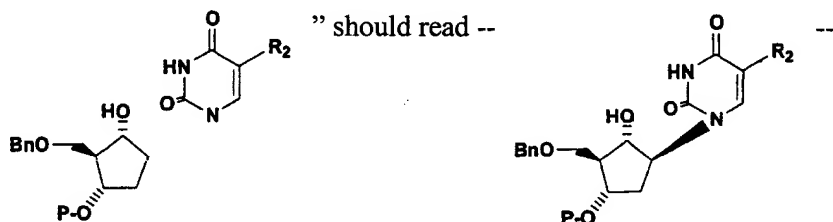
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 17,

Line 25, “ ” should read --

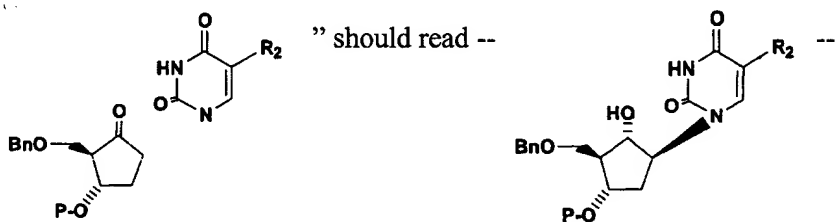


Line 55, “ ” should read --

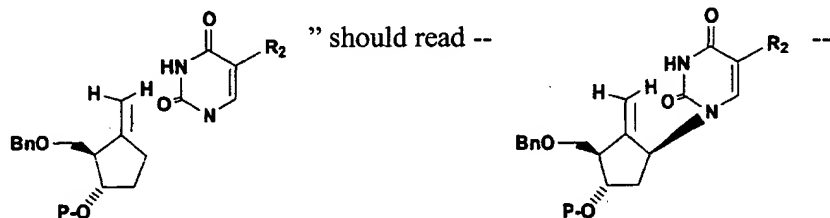


Column 18,

Line 5, “ ” should read --

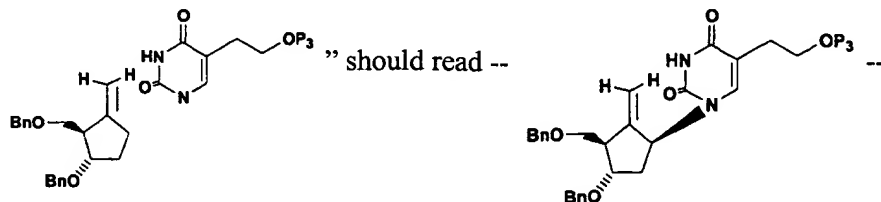


Line 25, “ ” should read --



Column 19,

Structure 34, “ ” should read --





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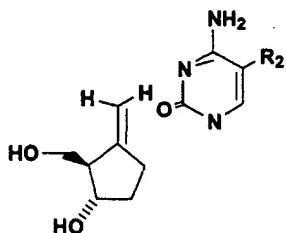
PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 3 of 8

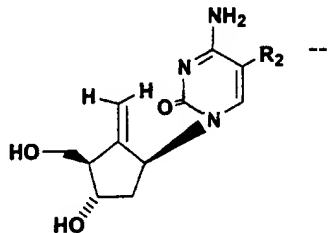
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19 (cont'd).

Structure 36, “

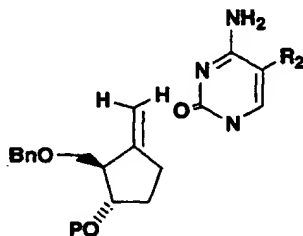


” should read --

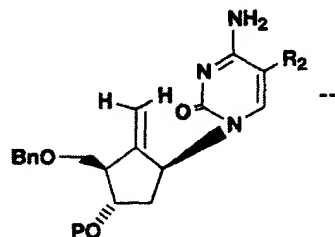


Column 20.

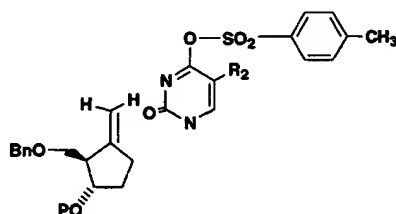
Structure 37, “



” should read --

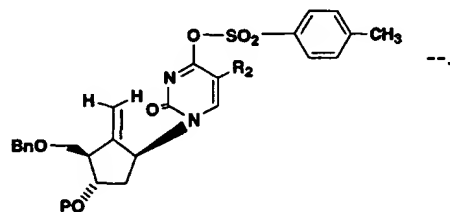


Structure 38, “



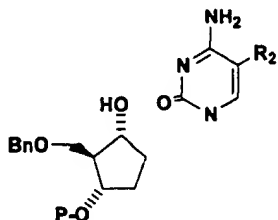
” should

read --

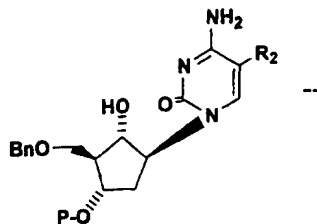


Column 21.

Structure 40, “



” should read --



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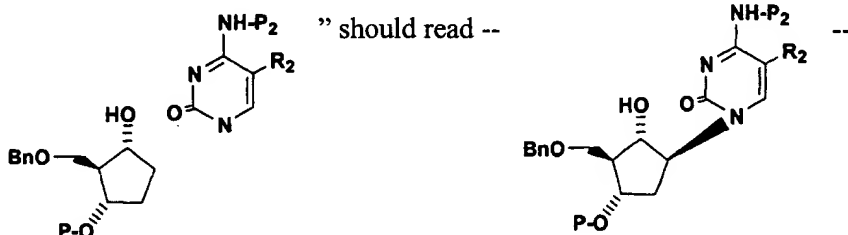
PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 4 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

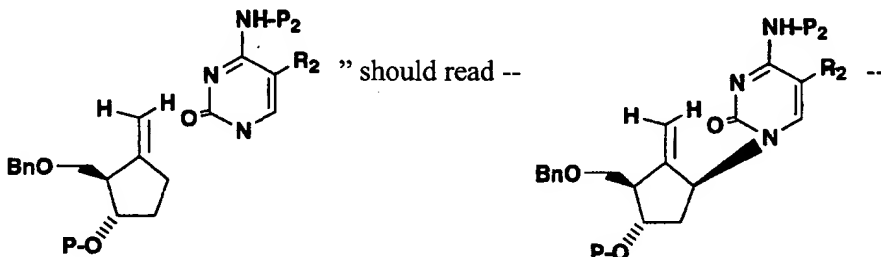
Column 21 (cont'd).

Structure 41, “

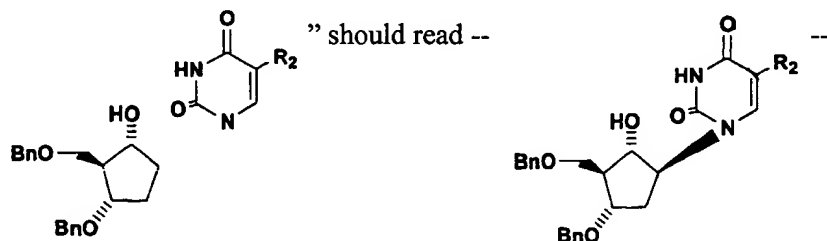


Column 22,

Structure 42, “

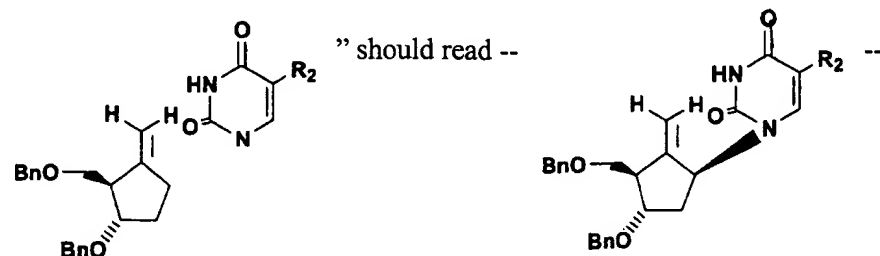


Structure 43, “



Column 23,

Structure 44, “



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**CERTIFICATE OF CORRECTION**

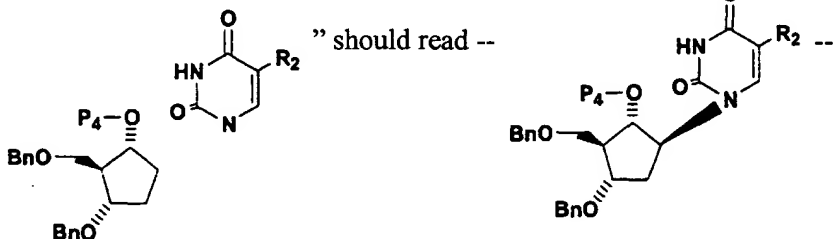
PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 5 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

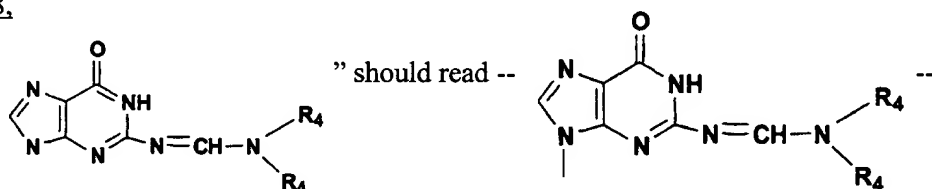
Column 23 (cont'd).

Structure 45, “ ” should read --



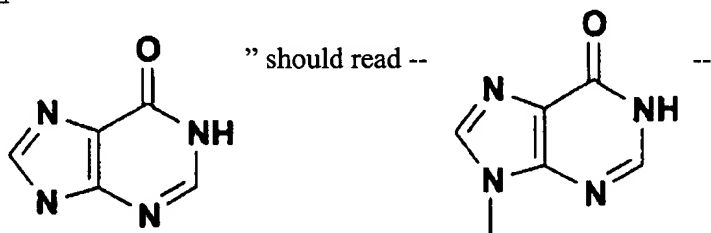
Column 28.

Line 65, “ ” should read --



Column 29.

Line 35, “ ” should read --



Column 30.

Line 33, should read -- oil (0.391 g atm) in dry tetrahydrofuran (156 ml) at --.

Column 31.

Line 38, should read -- 2-[(phenylmethoxy)-methyl]-6-oxabicyclo[3.1.0]hexan- --.

Column 33.

Line 21, “phenyl)diphenylmethylamino]-6-(phenylmethoxy)-9H-” should read -- phenyl)diphenylmethyl]amino]-6-(phenylmethoxy)-9H- --.

Line 65, “dihydro-9-2-methylene-4-(phenyl-methoxy)-3-[(phenyl-” should read -- dihydro-9-[2-methylene-4-(phenyl-methoxy)-3-[(phenyl- --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 6 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 37,

Line 10, "thoxy)-3-[(phenylmethoxy)methyl-cyclopentyl]-" should read

-- thoxy)-3-[(phenylmethoxy)methyl]-cyclopentyl]- --.

Line 49, "[1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-2-methylene-4-(phenylme-" should read

-- [1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-4-Amino-1-[2-methylene-4-(phenylme- --.

Column 39,

Line 22, "D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-2-methylene-4-" should read

-- D. [1S-1 $\alpha$ ,3 $\alpha$ ,4 $\beta$ )]-5-Iodo-1-[2-methylene-4- --.

Column 41,

Line 3, "methyl]cyclopentyl-2,4-dioxo-5-pyrimidinyl]-2-" should read

-- methyl]cyclopentyl]-2,4-dioxo-5-pyrimidinyl]-2- --.

Column 43,

Line 31, "(phenylmethoxy)-2-(phenylmethoxy)methyl]cyclopen-" should read

-- (phenylmethoxy)-[2-(phenylmethoxy)methyl]cyclopen- --.

Line 38, "[[(phenylmethoxy)methyl]cyclopentanol (610 mg, 1.25" should read

-- [(phenylmethoxy)methyl]cyclopentanol (610 mg, 1.25 --.

Column 44,

Line 55, "(1S-trans)-2-(Phenylmethoxy)methyl]-3-cyclopentene-1-" should read

-- (1S-trans)-2-[(Phenylmethoxy)methyl]-3-cyclopentene-1- --.

Column 45,

Line 40, "thoxy)methyl]-6-oxabicyclo[3.1.0]-hexane" should read

-- thoxy)methyl]-6-oxabicyclo[3.1.0]-hexane --.

Column 46,

Line 37, "1S-1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-1,2,3,4-Tetrahydro-" should read

-- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-3-[1,2,3,4-Tetrahydro- --.

Line 38, "1-2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)-" should read

-- 1-[2-hydroxy-4-(phenylmethoxy)-3-(phenyl-methoxy)- --.

Line 49, "I. [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-phenyl" should read

-- [1S-[1 $\alpha$ (E),2 $\beta$ ,3 $\alpha$ ,4 $\beta$ )]-1-[2-Hydroxy-4-(phenyl --.

Line 50, "methoxy)-3-(phenylmethoxy)methyl]cyclopentyl]-5-(2-" should read

-- methoxy)-3-[(phenylmethoxy)methyl]cyclopentyl]-5-(2- --.

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

Page 7 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 47,

Line 31, "1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]-5-(2-Iodoethenyl)-1-[2-methylene-4-" should read  
-- [1S-1 $\alpha$ (E),3 $\alpha$ ,4 $\beta$ ]-5-(2-Iodoethenyl)-1-[2-methylene-4- --.

Line 39, "concentration in vacuo from dry toluene) in dry dichlo-" should read  
-- concentration in vacuo from dry toluene) in dry dichlo- --.

Column 49,

Line 47, "lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methylcy-" should read  
-- lene-4-(phenylmethoxy)-3-[(phenyl-methoxy)methyl]cy- --.

Line 61, "was taken up in methnaol (26 ml.) and water (20 ml.)," should read  
-- was taken up in methanol (26 ml.) and water (20 ml.), --.

Column 50,

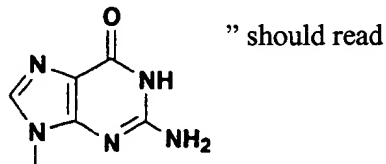
Line 40, "HIV (strain-5 HTLV-III B). After adsorption for 1 - 2" should read  
-- (strain HTLV-III B). After adsorption for 1 - 2 --.

Column 54,

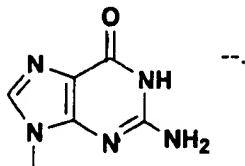
Line 65, " $\begin{array}{c} \text{O} \\ || \\ -\text{C}-\text{R}_5- \end{array}$  ." should read --  $\begin{array}{c} \text{O} \\ || \\ -\text{C}-\text{R}_5 \end{array}$  . --.

Column 55,

Line 25, "A compound according to claim 1 wherein



-- A compound according to claim 1 wherein  
R<sub>1</sub> is



UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

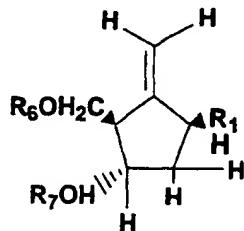
PATENT NO. : 5,206,244  
DATED : April 27, 1993  
INVENTOR(S) : Zahler et al.

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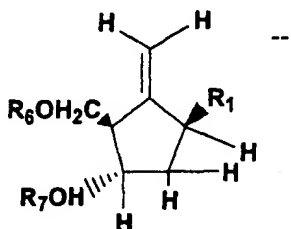
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 56,

Line 20, “



” should read --



Signed and Sealed this

Thirtieth Day of May, 2006

JON W. DUDAS  
*Director of the United States Patent and Trademark Office .*